

Granular insulating and levelling material - comprising mixt. of expanded perlite and light granulate, used esp. for jointless insulation layers on floors, etc.

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EC Classification: C04B30/00, E04D7/00, E04F15/18Equivalents: AT167691, AT395711B**Abstract**

(A) An insulating and levelling bulk material (a) 20-35 wt.% expanded perlite of bulk density 90-130 g/l; and (b) 65-80wt.% light granulate with a bulk density of 250-600 g/l.

(B) Prodn. of a jointless insulation layer on floors and the like involves (i) dry mixing the components (a) and (b); (ii) pouring and distributing the mixt. on the floor; and (iii) mechanically compacting the mixt.

The expanded perlite pref. has a particle size of 0-6mm and the light granulate pref. has a particle size of 0-8mm. The light granulate may be a pumice granulate with 0.3-4mm. particle size and 360-400 g/l bulk density or a gas concrete granulate with 0.2-4mm. particle size and 360-400 g/l bulk density. The individual granules of the mixt. may be coated with a hygroscopic organic cpd..

ADVANTAGE - The material is non-toxic and non-flammable, and has good mechanical stability with good surface strength.

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Construction component having a solar function for natural air conditioning

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Resumen

Construction component for residential, service and industrial buildings which brings about cooling of the environments through the evaporation of a liquid achieved by means of solar energy. The construction component, which can be used in new buildings or in existing buildings as an improving measure, in the absence of liquid which has to be evaporated provides thermal insulation of the environments which it encloses and their heating through captured solar energy. The component makes it possible to regulate the relative humidity of the air which is delivered to the environments making use of the adsorption characteristics of a suitable hygroscopic material. The component makes it possible to recover and reuse the evaporated liquid which is caused to condense on suitable surfaces. To the exterior Irrigating device B controlled by C Cooled air delivered to the environment Porous panel A which is wetted by B Moisture absorbing member Inner lining Electrical conductors connected to a control unit and electrically-operated valve C for controlling the wetting of panel A Waterproof layer Recycled air E Outside air Collection of water condensed on D Element D of water-impermeable and vapour-permeable non-woven fabric Covering member

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